

ABSTRACT

5 A shoulder- and/or neck-holder, seat-belt, seat and sets of vibration-dampening energy-absorbers are integrated into an energy-absorbing, vibration-dampening safety-seat in order to restrain the shoulders and/or neck of a belted passenger, dampen vibrations and gradually absorb subenergies, resulting from a subdivision of the total energy, just below the respective injury-irrelevant threshold-values in any real-world accident of a transport-system, submarining or during in-flight turbulence. The conversion of an adult-seat into a child-seat or a baby-cot or vice-versa is simple. A rotatable device makes the holder easy to use.

10 Neck- and/or shoulder-shaped, height-, width-adjustable holders and/or neck- and/or shoulder-shaped energy absorbers, attached thereto, ensure complete restraint of the shoulders and necks of passengers with different weights and body-proportions.

For the convenience of the passenger or in cases of emergency all latch-plates are disengaged from the buckle-assemblies and/or the rotatable holder is repositioned to the resting position on
15 depression of a master release-button.

OTHER PUBLICATIONS

- [1] Car-Magazine ADAC 1/95
- [2] Car-Magazine AMS (Auto Motor und Sport) 23/97
- [3] Car-Magazine AMS 12/99, Newspapers Wiesbadener Kurier of 28.12.98, 20.01, 22.06, 04.11.99,
5 Frankfurter Allgemeine Zeitung of 08.09.99, Frankfurter Rundschau of 12.06.99
- [4] Wiesbadener Tagsblatt of 28.12.97 reporting 100 injured passengers, 10 among them severely injured, in an inflight turbulence, to which their Boeing 747 was subjected.
- [5] Wiesbadener Tagsblatt of 15.04.99 reporting 30 injured passengers in an inflight turbulence, to which their Boeing 747 was subjected.
- 10 [6] Police accident report and photos documenting the steering wheel and -column totally deformed by a head when a 34 year-old driver of a brand-new BMW was thrown forward.
- [7] Police accident report and accident report by Go documenting the instant death of a 34 year-old female lawyer in a BMW Z3, into the co-driver side of which a Honda Civic crashed in the city Wiesbaden.
- 15 [8] 34-page accident report by Go concerning severe/fatal injuries, submarining, head injuries and whiplash-related injuries resulted from failure of conventional seat belts etc. to four German Ministers, General Attorney, Vice General Attorney, Senior Attorneys, Police Chief Directors, Police Directors etc.
- VDI (Verein Deutscher Ingenieure) Rheingau Regional-Magazin issue 1/2006 „Sicherheit im Auto in
20 Simulation und Wirklichkeit“. Author: Giok Djien Go. One of the theses addresses NCAP- and NHSTA test crashes, in which vibrations, yaw-, pitch- and roll-accelerated moments, alternate forces and the very low threshold values of inner organs are not specified at all and the boundary condition of which is wrong. As a result, the test results are wrong.
- Auto Motor und Sport issue 10/2002 „Wichtigste Aufgabe der Sicherheitsforschung“ One of the
25 theses addresses innovative, energy-absorbing, vibration-dampening shoulder- and neck holders in conjunction with energy-absorbing, vibration-dampening multi-point seat belts.